To the Honorable Commissioner of Patents and Trademarks and

1. Name of conveying party(ies):
   Lakshminarayanan Gunaseelan; Rammohan Kordale;

   Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

2. Name and address of receiving party(ies):
   Kasenna, Inc.
   2091 N. Shoreline Blvd.
   Mountain View, CA 94043

   Additional name(s) & address(es) attached? [ ] Yes [X] No

3. Nature of Conveyance:
   [X] Assignment [ ] Merger
   [ ] Security Agreement [ ] Change of Name

   Execution Date: October 16, 2001

4. Application number(s) or patent number(s):
   If this document is being filed together with a new application, the execution date of the application is:

   A. Patent Application No.(s)
   09/917,198 filed July 27, 2001

   Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
   R. Michael Ananian
   FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP
   4 Embarcadero Center #3400
   San Francisco, CA 94111

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41): $40.00
   [X] Enclosed
   [ ] Authorized to be charged to deposit account

8. Deposit account number: 06-1300
   Please debit any underpayment or credit any overpayment to the above deposit account.
   Our Order No. A-69479/RMA

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   To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
   R. Michael Ananian
   Name of Person Signing
   Signature
   November 12, 2001
   Date

Total number of pages including cover sheet, attachments and document: [3]

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Commissioner of Patents and Trademarks, Box Assignments
Washington, DC 20231

Rev. 8/93
1036281

PATENT
REEL: 012456 FRAME: 0567
ASSIGNMENT

WHEREAS, (1) LAKSHMINARAYANAN GUNASEELAN of Milpitas, California and (2) RAMMOHAN KORDALE of Sunnyvale, California, have invented certain new and useful improvements in SYSTEM, SERVER AND METHOD FOR VARIABLE BIT RATE MULTIMEDIA STREAMING, and have executed an application for a United States patent disclosing and identifying the invention filed July 27, 2001 bearing Serial No. 09/917,198;

WHEREAS, KASENNA, INC., a corporation of the State of Delaware, having a place of business at 1225 Charleston Road, Mountain View, California 94043, hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the
extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their heirs, legal representatives and assigns.

4. Said Inventors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed and delivered this instrument to said Assignee on the dates set forth below:

Date 10/16/01

(1) LAKSHMINARAYANAN GUNASEELAN

Date 10/16/01

(2) RAMMOHAN KORDALE